INTERNATIONAL SEARCH REPORT

national Application No T/IB2004/050415

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H03G1/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{array}{ll} \mbox{Minimum documentation searched (classification system followed by classification symbols)} \\ \mbox{IPC 7} & \mbox{H03G} \end{array}$

Documentation searched other than minimum documentation to the extent that such documents are included. In the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC, COMPENDEX

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 545 536 A (FORD WERKE AG; FORD FRANCE (FR); FORD MOTOR CO (GB)) 9 June 1993 (1993-06-09) abstract	1,2,4-6, 11-15
	column 3, line 43 - column 5, line 25;	
Y A	figures 1,2	3 7–10
Y	US 5 412 346 A (BURGER JR HARLEY F ET AL) 2 May 1995 (1995-05-02) abstract column 4, line 50 - column 7, line 51;	3
A	figures 3,4,6	1,2,4-15
	-/	

	·
X Further documents are listed in the continuation of box C.	χ Patent family members are listed in annex.
Special categories of cited documents: A* document defining the general state of the art which is not considered to be of particular relevance E* earlier document but published on or after the international filing date L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) O* document referring to an oral disclosure, use, exhibition or other means P* document published prior to the international filing date but later than the priority date claimed	 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular retevance; the claimed Invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "8" document member of the same patent family
Date of the actual completion of the international search 8 September 2004	Date of mailing of the international search report 24/09/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Trafidlo, R

INTERNATIONAL SEARCH REPORT

International Application No
T/IB2004/050415

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category • Citation of document, with Indication, where appropriate, of the relevant passages	Relevant to claim No.
US 6 046 632 A (STRAW TIMOTHY B) 4 April 2000 (2000-04-04) column 6, line 22 - column 8, line 31; figures 2,3	1-15
EP 0 803 977 A (SONY CORP) 29 October 1997 (1997-10-29) abstract column 3, line 55 - column 4, line 58; figures 1,2	1-15
US 4 855 685 A (HOCHSCHILD JAMES R) 8 August 1989 (1989-08-08) cited in the application abstract column 1, line 65 - column 3, line 41; figure 1	1-15
U. TIETZE, CH. SCHENK: "Halbleiter-Schaltungstechnik" 1991, SPRINGER-VERLAG, BERLIN, XP002295134 page 99 - page 101; figure 5.20 page 732 - page 733	4,11-15

INTERNATIONAL SEARCH REPORT

itional Application No /IB2004/050415

Patent document cited in search report	į	Publication date		Patent family member(s)	Publication date
EP 0545536	A	09-06-1993	US DE DE EP	5175508 A 69223219 D1 69223219 T2 0545536 A1	29-12-1992 02-01-1998 26-03-1998 09-06-1993
US 5412346	A	02-05-1995	KR	168143 B1	20-03-1999
US 6046632	A	04-04-2000	US	5877612 A	02-03-1999
EP 0803977	Α	29-10-1997	JP EP US	9289426 A 0803977 A2 5929706 A	04-11-1997 29-10-1997 27-07-1999
US 4855685	Α	08-08-1989	NONE		